

RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



To,

Date: 31-08-2019

ASSISTANT EXECUTIVE ENGINEER
KODIGEHALLI SUB DIVISION
BBMP
BANGALORE

Dear Sir,

Sub: M/s. Rudraprasad Consultants Services for the work of **PACKAGE -1, INCLUDES 2 WORKS OF RS.248.00 LAKHS** 1) **PROVIDING BASIC AMENITIES AND PROCUREMENT OF DUSTBINS IN KEMPAPURA, AMRUTHAHALLI, JAKKUR, JAKKUR LAYOUT, AMRUTHANAGARA IN WARD NO.07, BYATARAYANAPURA.** 2) **PROVIDING BASIC AMENITIES AND PROCUREMENT OF DUSTBINS IN SAHAKARANAGARA, BYATARAYANAPURA, SANJEEVININAGAR IN WARD NO.07, BYATARAYANAPURA.**

Ref: 1. Work Order No: BBMP/EE/BTP/WO/70/2018-19
2. Job code: 007-18-000010, 007-18-000011

We are here with forwarding to Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157. Third & Part Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs. 30,82,572.00/- (Rs. Thirty Lakhs Eighty Two Thousand Five Hundred and Seventy Two Rupees Only). First, Second Part Bills for Rs.1,29,94,869/-,Rs.60,63,246/-were Previously Submitted and The Total Bill Amount Submitted till date being 2,21,40,687/- (Rs.Two Crore Twenty One Lakhs Fourty Thousand Six Hundred and Eighty Seven Rupees Only)

Thanking you,

Yours faithfully,

For Rudraprasad Consultants

R. KARTHIK RECHAN B.E, M.S (U.S.A)
AUTHORIZED SIGNATORY
RUDRAPRASAD CONSULTANTS

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.



#3, 7th Main Malleswaram, Bangalore – 560003

Telefax: 9180 23444801, Mobile: 91 9972924526

Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in

RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



NAME OF WORK:- Package -1, Includes 2 works of Rs.248.00 Lakhs 1) Providing basic amenities and Procurement of dustbins in Kempapura, Amruthahalli, Jakkur, Jakkur Layout, Amruthanagara in Ward No.07, Byatarayanapura. 2) Providing basic amenities and procurement of dustbins in sahakaranagara, Byatarayanapura, Sanjeevininagar in Ward No.07, Byatarayanapura.

Name of Client : EXECUTIVE ENGINEER, KODIGEHALLI SUB DIVISION, BBMP, BANGALORE

Contractor/ Agency: Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Tender Contract Price Rs. 2,21,28,572/-

Date Of Inspection : 31-08-19

Status Of Bill : Third & Part Bill

In the Presence of : a) Assistant Engineer Kodigehalli Sub division, BBMP, Bangalore
b) R. Karthik Rechan, Partner, M/S RUDRAPRASAD CONSULTANTS, BANGALORE

PMC COMPLIANCE REPORT		
Sl. No.	Description of work	Comments/Observations
1	Outdoor PLZ IP Cameras with 20 X optical zoom with controller along with suitable mounting system (PTZ Pan Tilt and Zoom feature is available in this camera can be controlled by the software for pan Tilt and zoom feature at the control center and can be programmed to view at different angles and zoom level continuously. It operates at day and night and the viewing distance at clarity is about 100 metres	Work done upto the Billed Quantity and the Quality is satisfactory
2	Bracket (Corner Mount / Pole Mount/ Wall Mount) for mounting the PTZ camera.	Work done upto the Billed Quantity and the Quality is satisfactory

As per N.D.

#3, 7th Main Malleswaram, Bangalore – 560003

Telefax: 9180 23444801, Mobile: 91 9972924526

Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in



RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



3	Outdoor 50 Meter IP Cameras with IR & Mounting Bracket (with IR for day and night vision and can provide a viewing distance of 50 metres)	Work done upto the Billed Quantity and the Quality is satisfactory
4	Bracket and weatherproof Installation kit for 50 Meter IP Camera	Work done upto the Billed Quantity and the Quality is satisfactory
5	Outdoor 30 Meter IP Cameras with IR & Mounting Bracket (with IR for day and night vision and can provide a viewing distance of 30 metres)	Work done upto the Billed Quantity and the Quality is satisfactory
6	Bracket and weatherproof Installation kit for 30 Meter IP Camera	Work done upto the Billed Quantity and the Quality is satisfactory
7	32 Channel NVR DS 7732 NI- E4 (with 4 Sata Option) the control box and the recording device to connect upto 32 devices, can be cascaded to provide additional cameras	Work done upto the Billed Quantity and the Quality is satisfactory
8	12 TB NAS Box for Back up (NET GEAR) provides storage for the recorded data for quick view back and storage	Work done upto the Billed Quantity and the Quality is satisfactory
9	4 TB SATA for storage and fitted in the NVR Device for storage	Work done upto the Billed Quantity and the Quality is satisfactory

Arjun N.D.
AE (C&I)



RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



10	A suitable sheet metal control panel to house site Equipments (Weather Proof) The power supply and the ethernet connectivity adaptor is stored in this box.	Work done upto the Billed Quantity and the Quality is satisfactory
11	Power supply for the camera.	Work done upto the Billed Quantity and the Quality is satisfactory
12	Ethernet Switch for connectivity to Internet and Camera	Work done upto the Billed Quantity and the Quality is satisfactory
13	Supply & Laying of Network and Power Cables from Camera to the control Box.	Work done upto the Billed Quantity and the Quality is satisfactory
14	Video Manager Application Software for Display and Management of Camera on Video Display.	Work done upto the Billed Quantity and the Quality is satisfactory
15	Installation, Erection & commissioning charges	Work done upto the Billed Quantity and the Quality is satisfactory
16	Providing Modern Dust Bins	Work done upto the Billed Quantity and the Quality is satisfactory

Atulya N.D.
Architect



RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



17	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 Page No. 5 / Item No. 2.3 of PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory
18	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. Page No.12, Item No. 4.3 of PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory
19	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Page No. 23 / Item No. 5.6, PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory

Abhinav N.D
AEC (sr)



#3, 7th Main Malleswaram, Bangalore – 560003

Telefax: 9180 23444801, Mobile: 91 9972924526

Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in

RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



20	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Page No. 23 / Item No. 5.9, PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory
21	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications Page No. 113 / Item No. 15.3, PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory

M. H. N. D.
N.E. (S)



RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



22	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Page No. 5 / Item No. 2.11 of PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory
23	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Page No. 15 / Item No. 4.28, PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory

As per N.D.
AE (2nd)



RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



24	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplasticiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, No. 13 / Item No. 4.11 / PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory
25	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory

*As per N.D.
A.E. (S)*



RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



26	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.18 / PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory
27	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not less than 1800 kg/m ³ and having a minimum average compressive strength 4.00 N/mm ² confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 Page No. 25 / Item No. 5.26.2, PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory

M. N. D.
(Signature)



#3, 7th Main Malleswaram, Bangalore – 560003

Telefax: 9180 23444801, Mobile: 91 9972924526

Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in

RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



28	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing	Work done upto the Billed Quantity and the Quality is satisfactory
29	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 114, Item No. 15.21 of PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory
30	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 114 / Item No. 15.16, PWD SR 2016-17-(Inside Wall)	Work done upto the Billed Quantity and the Quality is satisfactory

Architectural #3, 7th Main Malleswaram, Bangalore – 560003
Telefax: 9180 23444801, Mobile: 91 9972924526
Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in



RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



31	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. Page No. 115, Item No. 15.33, PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory
32	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 114 / Item No. 15.17, PWD SR 2016-17 (Outside Wall)	Work done upto the Billed Quantity and the Quality is satisfactory
33	Supplying and fixing pressed steel door frames size 125x65 mm manufactured from 1.25mm thick carbon steel or imported steel strips with mitred joints of 900 for door openings and shutters made out of seasoned Honne wood, styles of 30 mm, thick with lock rail of 160 mm, width, top and side rails of 100 mm. width and bottom rails of 250 mm width and panel filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rot proof, vermin proof, heat resistant guaranteed against shrinkage, warpage and such other defects for a period of 3 years. This shall be as per approved drawings, specification and direction including cost of conveyance, manufacturing, painting with enamel paint 2 coats over primer coat, cost of labour for all items of work, machinery, equipment and all other incidental charges with all lead, lift, loading and unloading etc., complete. The Hollow portion of the frame to be filled with cement concrete 1:2:4. Page No. 39 / Item No. 7.26, PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory

As per N.D.
As per (21)

R.K. 7

#3, 7th Main Malleswaram, Bangalore – 560003

Telefax: 9180 23444801, Mobile: 91 9972924526

Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in



RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



34	"Supplying and fixing pressed steel window frame of size 100 x 50mm manufactured from 1.25 mm thick carbon steel or imported steel strips with neat mitred joints at 90degree for window openings and shall be suitable to fix M.S. grills as per design and drawings using 12mm dia rods at 100mm Centre to Centre horizontally and two members of M.S flats of 6mmx40mm size at 150mm apart, welded into a frame of 6mmx40mm size M.S. flats with 16mm size lugs, and 8 Nos. of 100mm size hinges, 4 Nos of Butt Stay pins and 4 Nos. Tower bolts and shutters half panelled and half glazed with shutters made out of seasoned honne wood, styles of 30mm thick and 100mm width and rails of 30mm thick and 100mm width and using 4mm thick pin headed glass and panel, filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rot proof vermin proof, heat resistant guaranteed against shrinkage, warp age and such other defects for a period of 3 years. This shall be as per approved drawing, specification and direction including cost of	Work done upto the Billed Quantity and the Quality is satisfactory
35	KSRB 14.10-1: Flooring with 25mm to 40mm thick polished tandur blue stone slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, , including cost of materials, labour, curing, polishing complete as per specifications. Specification No. KBS Page No. 103 / Item No. 14.15, PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory

Abhijit N. D.
At (and)



RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants



36	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. Page No. 117 / Item No. 15.49.1, PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory
37	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. Page No. 117 / Item No. 15.53.2, SR 2016-17.	Work done upto the Billed Quantity and the Quality is satisfactory
38	KSRB 8.6-7 : Providing and fixing on wall surface 4.0 kg / sq.cm H.D.P.E. rain down water pipes 90 mm outer dia. approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications. Page No. 47 / Item No. 8.18, PWD SR 2016-17	Work done upto the Billed Quantity and the Quality is satisfactory
E1	Leaf Cutter Machine Including Transportation (Data Rate Item)	Work done upto the Billed Quantity and the Quality is satisfactory

Atul N.D.
A.E. (1st)

Dev
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,



#3, 7th Main Malleswaram, Bangalore - 560003

Telefax: 9180 23444801, Mobile: 91 9972924526

Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in